

Title (en)

Inner crystallization crucible and pulling method using the crucible

Title (de)

Innerer Kristallisierungstiegel und Ziehverfahren unter Verwendung des Tiegels

Title (fr)

Creuset de cristallisation interne et procédé d'étirement utilisant le creuset

Publication

**EP 2075355 B1 20120516 (EN)**

Application

**EP 08020756 A 20081128**

Priority

JP 2007339346 A 20071228

Abstract (en)

[origin: EP2075355A2] A vitreous silica crucible for pulling single-crystal silicon, comprising a surface glass layer having a thickness of 100  $\mu\text{m}$  from an inner surface of the crucible, and a glass layer provided below the surface glass layer in a thickness direction of the crucible and extending to a depth of 1 mm from the inner surface of the crucible. The concentration of OH groups in the surface glass layer is 90 ppm or less, and the concentration of OH groups in the glass layer is equal to or more than 90 ppm and equal to or less than 200 ppm. The bubble content in the glass layer is 0.1% or less.

IPC 8 full level

**C30B 15/10** (2006.01); **C30B 29/06** (2006.01)

CPC (source: EP US)

**C30B 15/10** (2013.01 - EP US); **C30B 29/06** (2013.01 - EP US); **Y10T 117/1032** (2015.01 - EP US)

Cited by

KR20190116525A; DE102012109181A1; WO2014048791A1; US9856576B2; DE102012109181B4; US10287705B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 2075355 A2 20090701**; **EP 2075355 A3 20100811**; **EP 2075355 B1 20120516**; JP 2009161364 A 20090723; JP 4995069 B2 20120808; US 2009165700 A1 20090702

DOCDB simple family (application)

**EP 08020756 A 20081128**; JP 2007339346 A 20071228; US 32497808 A 20081128